

CLAIMS:

1. A color display, comprising:

a base plate;

5 a dark color layer provided on the base plate;

a plurality of electroluminescent elements, which are located on the dark color layer and are arranged in a matrix, wherein a predetermined space exists between each adjacent pair of the electroluminescent elements;

10 a plurality of color control portions provided on the electroluminescent elements, wherein each color control portion is aligned with one of the electroluminescent elements along a thickness direction of the color display, wherein, when receiving light from the corresponding electroluminescent
15 element, each color control portion controls the color of the received light and then emits the light, and wherein the interface between each adjacent pair of the color control portions is aligned with the space between an adjacent pair of the electroluminescent elements along the thickness direction
20 of the color display; and

a screen provided on the color control portions, wherein light outputted from the color control portions is outputted through the screen to show an image on the screen.

25 2. The color display according to claim 1, further comprising a plurality of active elements, wherein each active element corresponds to one of the electroluminescent elements, and wherein each active element selectively switches the corresponding electroluminescent element between a light-
30 emitting state and a non-light-emitting state.

3. The color display according to claim 2, further comprising a plurality of pixel electrodes and an opposing electrode, wherein each electroluminescent element is located
35 between one of the pixel electrodes and the opposing

electrode, and wherein each pixel electrode is electrically connected with one of the active elements.

4. The color display according to claim 3, wherein the
5 opposing electrode is closer to the screen than the pixel electrodes and is of a light transmittance type.

5. The color display according to claim 3, wherein the pixel electrodes and the active elements are located in
10 different planes.

6. The color display according to claim 5, wherein the dark color layer is located between the active elements and the pixel electrodes and has a plurality of contact holes, and
15 wherein each active element is electrically connected to the corresponding pixel electrode through one of the contact holes.

7. The color display according to claim 1, further
20 comprising a passivation film provided on the electroluminescent elements, wherein the passivation film seals the electroluminescent elements.

8. The color display according to claim 1, wherein, when
25 emitting light, the electroluminescent elements emit white light.

9. A color display, comprising:
a base plate;
30 a dark color layer provided on the base plate;
a plurality of liquid crystal elements, which are located on the dark color layer and are arranged in a matrix, wherein a predetermined space exists between each adjacent pair of the liquid crystal elements;
35 a reflecting portion provided between the dark color

layer and the liquid crystal elements, wherein the reflecting portion reflects light that reaches the reflecting portion;

5 a plurality of color control portions provided on the liquid crystal elements, wherein each color control portion is aligned with one of the liquid crystal elements along a thickness direction of the color display, wherein, when receiving light that has passed through the corresponding liquid crystal element, each color control portion controls the color of the received light and then emits the light, and
10 wherein the interface between each adjacent pair of the color control portions is aligned with the space between an adjacent pair of the liquid crystal elements along the thickness direction of the color display; and

15 a screen provided on the color control portions, wherein light outputted from the color control portions is outputted through the screen to show an image on the screen.

10. The color display according to claim 9, wherein a surface of the reflecting portion that faces the liquid
20 crystal elements is wavy.

11. The color display according to claim 9, further comprising a plurality of active elements, wherein each active element corresponds to one of the liquid crystal elements, and
25 wherein each active element selectively switches the corresponding liquid crystal element between a light-transmitting state and a light-blocking state.

12. The color display according to claim 11, further comprising a plurality of pixel electrodes and an opposing electrode, wherein each liquid crystal element is located
30 between one of the pixel electrodes and the opposing electrode, and wherein each pixel electrode is electrically connected with one of the active elements.

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13. The color display according to claim 12, wherein the opposing electrode is closer to the screen than the pixel electrodes and is of a light transmittance type.

5 14. The color display according to claim 13, wherein the pixel electrodes are located between the dark color layer and the liquid crystal elements and function as the reflecting portion.

10 15. The color display according to claim 12, wherein the pixel electrodes and the active elements are located in different planes.

15 16. The color display according to claim 15, wherein the dark color layer is located between the active elements and the pixel electrodes and has a plurality of contact holes, and wherein each active element is electrically connected to the corresponding pixel electrode through one of the contact holes.

20 17. The color display according to claim 12, wherein a surface of each pixel electrode that faces the corresponding liquid crystal element is wavy.